

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/535,433
Source: PG 1/10
Date Processed by STIC: 5/27/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

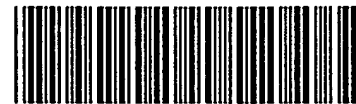
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>10/535,433</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <u> </u> Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <u> </u> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <u> </u> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <u> </u> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <u>J</u> Variable Length	Sequence(s) <u>3-4</u> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <u> </u> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <u> </u> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <u> </u> Skipped Sequences (OLD RULES)	Sequence(s) <u> </u> missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <u> </u> Skipped Sequences (NEW RULES)	Sequence(s) <u> </u> missing. If intentional, please insert the following lines for each skipped sequence: <210> sequence id number <400> sequence id number 000	
9 <u> </u> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <u> </u> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <u> </u> Use of <220>	Sequence(s) <u> </u> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <u> </u> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <u> </u> Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



PCT

RAW SEQUENCE LISTING

DATE: 05/27/2005

PATENT APPLICATION: US/10/535,433

TIME: 10:48:09

Input Set : A:\PCT_GB2003_004983.ST25.txt

Output Set: N:\CRF4\05272005\J535433.raw

3 <110> APPLICANT: University of Warwick
 5 <120> TITLE OF INVENTION: Antibody Secretion
 7 <130> FILE REFERENCE: P708122PCT
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/535,433
 C--> 10 <141> CURRENT FILING DATE: 2005-05-18
 12 <150> PRIOR APPLICATION NUMBER: GB0226878.7
 13 <151> PRIOR FILING DATE: 2002-11-18
 15 <160> NUMBER OF SEQ ID NOS: 69
 17 <170> SOFTWARE: PatentIn version 3.2
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 6
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Artificial sequence
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: Modified targeting signal in the final antibody heavy chain
 28 <220> FEATURE:
 29 <221> NAME/KEY: MISC_FEATURE
 30 <222> LOCATION: (1)..(1)
 31 <223> OTHER INFORMATION: Asn, His or Leu
 33 <220> FEATURE:
 34 <221> NAME/KEY: MISC_FEATURE
 35 <222> LOCATION: (2)..(2)
 36 <223> OTHER INFORMATION: Val or Tyr
 38 <220> FEATURE:
 39 <221> NAME/KEY: MISC_FEATURE
 40 <222> LOCATION: (3)..(3)
 41 <223> OTHER INFORMATION: Ser or Asn
 43 <220> FEATURE:
 44 <221> NAME/KEY: MISC_FEATURE
 45 <222> LOCATION: (5)..(5)
 46 <223> OTHER INFORMATION: An aliphatic amino acid, especially Val or Leu
 48 <220> FEATURE:
 49 <221> NAME/KEY: misc_feature
 50 <222> LOCATION: (6)..(6)
 51 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 53 <400> SEQUENCE: 1
 W--> 55 Xaa Xaa Xaa Val (Ser) Xaa
 56 1
 59 <210> SEQ ID NO: 2
 60 <211> LENGTH: 6
 61 <212> TYPE: PRT
 62 <213> ORGANISM: Artificial sequence
 64 <220> FEATURE:

Does Not Comply
Corrected Diskette Needed

pp 1-3

"Ser" can only represent itself. Use Xaa and explain in

2207-2237
section

RAW SEQUENCE LISTING

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Input Set : A:\PCT_GB2003_004983.ST25.txt

Output Set: N:\CRF4\05272005\J535433.raw

65 <223> OTHER INFORMATION: Modified targeting signal in the final antibody heavy chain
 67 <400> SEQUENCE: 2
 69 Asn Val Ser Val Ser Val
 70 1 5
 73 <210> SEQ ID NO: 3
 74 <211> LENGTH: 3
 75 <212> TYPE: PRT
 76 <213> ORGANISM: Artificial sequence
 78 <220> FEATURE:
 79 <223> OTHER INFORMATION: Modified targeting signal in the final antibody heavy chain
 82 <220> FEATURE:
 83 <221> NAME/KEY: MISC_FEATURE
 84 <222> LOCATION: (1)..(1)
 85 <223> OTHER INFORMATION: m copies of, independently, any amino acid with the proviso
 that
 86 it is not selected from Ile, Leu or forms the consecutive
 87 sequence described in SEQ ID:4. m is an integer of at least 2.
 88 Preferably, m is between 4 and 20, especially 5 to 10.
 90 <220> FEATURE:
 91 <221> NAME/KEY: MISC_FEATURE
 92 <222> LOCATION: (3)..(3)
 93 <223> OTHER INFORMATION: n copies of any amino acid, the presence of each amino acid
 is
 94 independent of the other(s). n is an integer of 0 to 5.
 95 Preferably n= 0 or 1, especially 1. This amino acid is most
 96 preferably Tyr or Ala, especially Ala. Preferably
 98 <220> FEATURE:
 99 <221> NAME/KEY: MISC_FEATURE
 100 <222> LOCATION: (3)..(3)
 101 <223> OTHER INFORMATION: n copies of any amino acid, the presence of each amino acid
 is
 102 independent of the other(s). n is an integer of 0 to 5.
 103 Preferably n= 0 or 1, especially 1. This amino acid is most
 104 preferably Tyr or Ala, especially Ala.
 106 <400> SEQUENCE: 3
 W--> 108 Xaa Cys Xaa
 109 1
 112 <210> SEQ ID NO: 4
 113 <211> LENGTH: 6
 114 <212> TYPE: PRT
 115 <213> ORGANISM: Artificial sequence
 117 <220> FEATURE:
 118 <223> OTHER INFORMATION: For definition of X at position 1 see SEQ ID: 3
 121 <220> FEATURE:
 122 <221> NAME/KEY: MISC_FEATURE
 123 <222> LOCATION: (1)..(1)
 124 <223> OTHER INFORMATION: Asn, His or Leu
 126 <220> FEATURE:
 127 <221> NAME/KEY: MISC_FEATURE
 128 <222> LOCATION: (2)..(2)
 129 <223> OTHER INFORMATION: Val or Tyr
 131 <220> FEATURE:

variable
length not
permitted.
(see item 5 on Error Summary Sheet)

This is a
duplicate
of above

This needs explanation
in <2207-22237 section.

same
error
(see item 5
on Error
Summary
Sheet)

variable length
not permitted

RAW SEQUENCE LISTING

DATE: 05/27/2005

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TIME: 10:48:09

Input Set : A:\PCT_GB2003_004983.ST25.txt

Output Set: N:\CRF4\05272005\J535433.raw

132 <221> NAME/KEY: MISC_FEATURE
 133 <222> LOCATION: (3)..(3)
 134 <223> OTHER INFORMATION: Ser or Asn
 136 <220> FEATURE:
 137 <221> NAME/KEY: MISC_FEATURE
 138 <222> LOCATION: (4)..(4)
 139 <223> OTHER INFORMATION: Any aliphatic amino acid
 141 <220> FEATURE:
 142 <221> NAME/KEY: misc_feature
 143 <222> LOCATION: (6)..(6)
 144 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 146 <400> SEQUENCE: 4
 W--> 148 Xaa Xaa Xaa Val Ser Xaa
 149 1 5
 152 <210> SEQ ID NO: 5
 153 <211> LENGTH: 18
 154 <212> TYPE: PRT
 155 <213> ORGANISM: Artificial sequence
 157 <220> FEATURE:
 158 <223> OTHER INFORMATION: Modified targeting signal in the final antibody heavy chain
 161 <220> FEATURE:
 162 <221> NAME/KEY: MISC_FEATURE
 163 <222> LOCATION: (3)..(3)
 164 <223> OTHER INFORMATION: Asn, His or Leu. Preferably Leu
 166 <220> FEATURE:
 167 <221> NAME/KEY: MISC_FEATURE
 168 <222> LOCATION: (4)..(4)
 169 <223> OTHER INFORMATION: Val or Tyr, preferably Val
 171 <220> FEATURE:
 172 <221> NAME/KEY: MISC_FEATURE
 173 <222> LOCATION: (5)..(5)
 174 <223> OTHER INFORMATION: Ser or Asn
 176 <220> FEATURE:
 177 <221> NAME/KEY: MISC_FEATURE
 178 <222> LOCATION: (8)..(8)
 179 <223> OTHER INFORMATION: An aliphatic amino acid, preferably Val or Leu
 181 <220> FEATURE:
 182 <221> NAME/KEY: MISC_FEATURE
 183 <222> LOCATION: (9)..(9)
 184 <223> OTHER INFORMATION: An aliphatic amino acid, preferably Ile, Val or Leu
 186 <220> FEATURE:
 187 <221> NAME/KEY: MISC_FEATURE
 188 <222> LOCATION: (10)..(10)
 189 <223> OTHER INFORMATION: Met, Val or Leu, preferably Met
 191 <220> FEATURE:
 192 <221> NAME/KEY: MISC_FEATURE
 193 <222> LOCATION: (11)..(11)
 194 <223> OTHER INFORMATION: Ser or Ala
 196 <220> FEATURE:

Val can only represent itself. Use Xaa and explain.
Any aliphatic amino acid

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Input Set : A:\PCT_GB2003_004983.ST25.txt

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197 <221> NAME/KEY: MISC_FEATURE
198 <222> LOCATION: (12)..(12) /
199 <223> OTHER INFORMATION: Asp or Glu
201 <220> FEATURE:
202 <221> NAME/KEY: MISC_FEATURE
203 <222> LOCATION: (13)..(13) /
204 <223> OTHER INFORMATION: Any amino acid, preferably Gly, Val, Ala or Thr
206 <220> FEATURE:
207 <221> NAME/KEY: MISC_FEATURE
208 <222> LOCATION: (14)..(14) /
209 <223> OTHER INFORMATION: Asp, Glu, Gly, or Ala, preferably Asp
211 <220> FEATURE:
212 <221> NAME/KEY: MISC_FEATURE
213 <222> LOCATION: (15)..(15) /
214 <223> OTHER INFORMATION: Gly or Ser, preferably Gly
216 <220> FEATURE:
217 <221> NAME/KEY: MISC_FEATURE
218 <222> LOCATION: (16)..(16) /
219 <223> OTHER INFORMATION: Ile, Thr, Val, Glx or Ala, preferably Ile or Thr
221 <220> FEATURE:
222 <221> NAME/KEY: MISC_FEATURE
223 <222> LOCATION: (18)..(18) /
224 <223> OTHER INFORMATION: May or may not be present and where present is Ala or Tyr.
Most
225     preferably, where this amino acid present it is Ala.
227 <400> SEQUENCE: 5
W--> 229 Pro Thr Xaa Xaa Xaa Val Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
230 1           5           10           15
233 Cys Xaa
237 <210> SEQ ID NO: 6
238 <211> LENGTH: 6
239 <212> TYPE: PRT
240 <213> ORGANISM: Artificial sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Modified targeting signal in the final antibody heavy chain
246 <220> FEATURE:
247 <221> NAME/KEY: MISC_FEATURE
248 <222> LOCATION: (1)..(1) /
249 <223> OTHER INFORMATION: Asn, His or Leu
251 <220> FEATURE:
252 <221> NAME/KEY: MISC_FEATURE
253 <222> LOCATION: (2)..(2) /
254 <223> OTHER INFORMATION: Val or Tyr
256 <220> FEATURE:
257 <221> NAME/KEY: MISC_FEATURE
258 <222> LOCATION: (3)..(3) /
259 <223> OTHER INFORMATION: Ser or Asn
261 <220> FEATURE:
262 <221> NAME/KEY: MISC_FEATURE
263 <222> LOCATION: (6)..(6) /

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RAW SEQUENCE LISTING

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TIME: 10:48:09

Input Set : A:\PCT_GB2003_004983.ST25.txt

Output Set: N:\CRF4\05272005\J535433.raw

264 <223> OTHER INFORMATION: Aliphatic amino acid
 266 <400> SEQUENCE: 6
 W--> 268 Xaa Xaa Xaa Val Ser Xaa
 269 1 5
 272 <210> SEQ ID NO: 7
 273 <211> LENGTH: 28
 274 <212> TYPE: PRT
 275 <213> ORGANISM: Artificial sequence
 277 <220> FEATURE:
 278 <223> OTHER INFORMATION: Modified targeting signal in the final antibody heavy chain
 280 <400> SEQUENCE: 7
 282 Ser Cys Met Val Gly His Glu Ala Leu Pro Met Asn Phe Thr Gln Lys
 283 1 5 10 15
 286 Thr Ile Asp Arg Leu Ser Gly Lys Pro Ala Cys Tyr
 287 20 25
 290 <210> SEQ ID NO: 8
 291 <211> LENGTH: 30
 292 <212> TYPE: PRT
 293 <213> ORGANISM: Artificial sequence
 295 <220> FEATURE:
 296 <223> OTHER INFORMATION: Modified targeting signal in the final antibody heavy chain
 298 <400> SEQUENCE: 8
 300 Ser Cys Met Val Gly His Glu Ala Leu Pro Met Asn Phe Thr Gln Lys
 301 1 5 10 15
 304 Thr Ile Asp Arg Leu Ser Gly Lys Pro Ala Ala Ala Cys Tyr
 305 20 25 30
 308 <210> SEQ ID NO: 9
 309 <211> LENGTH: 38
 310 <212> TYPE: PRT
 311 <213> ORGANISM: Artificial sequence
 313 <220> FEATURE:
 314 <223> OTHER INFORMATION: Modified targeting signal in the final antibody heavy chain
 316 <400> SEQUENCE: 9
 318 Ser Cys Met Val Gly His Glu Ala Leu Pro Met Asn Phe Thr Gln Lys
 319 1 5 10 15
 322 Thr Ile Asp Arg Leu Ser Gly Lys Pro His Ala Ser Thr Pro Glu Pro
 323 20 25 30
 326 Asp Pro Val Ala Cys Tyr
 327 35
 330 <210> SEQ ID NO: 10
 331 <211> LENGTH: 27
 332 <212> TYPE: DNA
 333 <213> ORGANISM: Artificial sequence
 335 <220> FEATURE:
 336 <223> OTHER INFORMATION: Synthetic oligonucleotide
 338 <400> SEQUENCE: 10
 339 ccatcgatgg aatggacctg gggtttt 27
 342 <210> SEQ ID NO: 11
 343 <211> LENGTH: 27

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/535,433

DATE: 05/27/2005
TIME: 10:48:10

Input Set : A:\PCT_GB2003_004983.ST25.txt
Output Set: N:\CRF4\05272005\J535433.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1, 2, 3, 6

Seq#:3; Xaa Pos. 1, 3

Seq#:4; Xaa Pos. 1, 2, 3, 6

Seq#:5; Xaa Pos. 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18

Seq#:6; Xaa Pos. 1, 2, 3, 6

VERIFICATION SUMMARY

DATE: 05/27/2005

PATENT APPLICATION: US/10/535,433

TIME: 10:48:10

Input Set : A:\PCT_GB2003_004983.ST25.txt

Output Set: N:\CRF4\05272005\J535433.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0

L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

M:341 Repeated in SeqNo=5

L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0